

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/588,290
Source: FWP
Date Processed by STIC: 8/11/06

ENTERED



IFWP

RAW SEQUENCE LISTING

DATE: 08/11/2006

PATENT APPLICATION: US/10/588,290

TIME: 11:07:12

Input Set : A:\L7350.0009 SEQUENCE LISTING.TXT

Output Set: N:\CRF4\08112006\J588290.raw

3 <110> APPLICANT: Nakajima, Toshihiro
 4 Yamasaki, Satoshi
 5 Yagishita, Naoko
 6 Tonaki, Daijuro
 7 Kato, Yukihiro
 9 <120> TITLE OF INVENTION: NERVE CELL DIFFERENTIATION INDUCER
 11 <130> FILE REFERENCE: L7350.0009
 C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/588,290
 C--> 13 <141> CURRENT FILING DATE: 2006-08-04
 13 <150> PRIOR APPLICATION NUMBER: PCT/JP2005/002106
 W--> 14 <151> PRIOR FILING DATE: February 4, 2005
 16 <150> PRIOR APPLICATION NUMBER: JP2004-31320
 17 <151> PRIOR FILING DATE: 2004-02-06
 19 <160> NUMBER OF SEQ ID NOS: 7
 21 <170> SOFTWARE: PatentIn version 3.2
 23 <210> SEQ ID NO: 1
 24 <211> LENGTH: 3374
 25 <212> TYPE: DNA
 26 <213> ORGANISM: Homo sapiens
 28 <400> SEQUENCE: 1
 29 gccctttctt atgagcatgc ctgtgttggtg ttgacagtga gggtaataat gacttggttg 60
 31 ttgattgtag atatagggtc ctcccttgca aggtaattag gctccttaaa ttacctgtaa 120
 33 gattttcttg ccacagcatc cattctggtt aggtcgggtga tcttctgagt agtgatagat 180
 35 tgggttggtg tgaggtttac aggtgttccc ttctcttact cctggtggtg gctacaatca 240
 37 ggtggcgtct agagcagcat gggacagggt ggtaagggga gtcttctcat tatgcagaag 300
 39 tgatcaactt aaatctctgt cagatctacc tttatgtagc ccggcagtcg cgcggtatga 360
 41 gcgggctcgc ggcgctgggt tctgtgtctc cgggccaggg caatgttccg cacggcagtg 420
 43 atgatggcgg ccagcctggc gctgaccggg gctgtggttg ctacgccta ctacctcaa 480
 45 caccagttct acccactgt ggtgtacctg accaagtcca gcccagcat ggcagtcctg 540
 47 tacatccagg cctttgtcct tgtcttcctt ctgggcaagg tgatgggcaa ggtgttcttt 600
 49 gggcaactga gggcagcaga gatggagcac cttctggaac gttcctggta cgccgtcaca 660
 51 gagacttgct tggccttcac cgtttttcgg gatgacttca gccccgctt tgttgactc 720
 53 ttcactcttc ttctcttcct caaatgttct cactggcttg ctgaggaccg tgtggacttt 780
 55 atggaacgca gcccacat ctctggtctc tttcactgcc gcattgtctc tcttatgttc 840
 57 ctctgggca tcttgactt cctcttcgtc agccagcct atcacagcat cctgaccggt 900
 59 ggggcctctg tgcagctggt gtttggtctt gagtatgcca tctgatgac gatggtgctc 960
 61 accatcttca tcaagtatgt gctgcactcc gtggacctcc agagtgagaa cccctgggac 1020
 63 aacaaggctg tgtacatgct ctacacagag ctgtttacag gttcatcaa ggttctgctg 1080
 65 tacatggcct tcatgacct catgatcaag gtgcacacct tcccactctt tgccatccgg 1140
 67 cccatgtacc tggccatgag acagttcaag aaagctgtga cagatgccat catgtctcgc 1200
 69 cgagccatcc gcaacatgaa caccctgtat ccagatgcca cccagagga gctccaggca 1260
 71 atggacaatg tctgcatcat ctgccgagaa gagatggtga ctggtgccaa gagactgccc 1320
 73 tgcaaccaca tttccatac cagctgctg cgctcctggt tccagcggca gcagacctgc 1380

RAW SEQUENCE LISTING

DATE: 08/11/2006

PATENT APPLICATION: US/10/588,290

TIME: 11:07:12

Input Set : A:\L7350.0009 SEQUENCE LISTING.TXT

Output Set: N:\CRF4\08112006\J588290.raw

```

75 cccacctgcc gtatggatgt ccttcgtgca tcgctgccag cgcagtcacc accacccccg 1440
77 gagcctgcgg atcagggggc acccctgcc cccaccccc caccactctt gcctcagccc 1500
79 cccaacttcc cccagggcct cctgcctcct ttctctccag gcatgttccc actgtggccc 1560
81 cccatgggccc cctttccacc tgtccgcct ccccccagct caggagaggc tgtggctcct 1620
83 ccatccacca gtgcagcagc cttttctcgg cccagtggag cagctacaac cacagctgct 1680
85 ggcaccagtg ctactgctgc ttctgccaca gcatctggcc caggctctgg ctctgcccc 1740
87 gaggctggcc ctgcccctgg ttcccccttc cctcctccct ggatgggtat gcccctgct 1800
89 ccaccctttg cttccccccc aatgcctgtg ccccctgcgg gctttgctgg gctgaccca 1860
91 gaggagctac gagctctgga gggccatgag cggcagcacc tggaggcccg gctgcagagc 1920
93 ctgcgtaaca tccacacact gctggacgcc gccatgctgc agatcaacca gtacctcacc 1980
95 gtgctggcct ccttggggcc ccccggcct gccacttcag tcaactccac tgaggggact 2040
97 gccactacag ttgttgctgc tgctcctcc accagcatcc ctagctcaga ggccacgacc 2100
99 ccaacccag gagctcccc accagccct gaaatggaaa ggcctccagc tctgagtc 2160
101 gtgggcacag aggatagtc tgaggatgga gagcccgatg cagcagagct ccgcccggcg 2220
103 cgcctgcaga agctggagtc tcctgttgcc cactgacact gcccagccc agcccagcc 2280
105 tctgctcttt tgagcagccc tcgctggaac atgtcctgcc accaagtgcc agtccctct 2340
107 ctgtctgcac caggagtag tacccccagc tctgagaaag aggcggcatc ccctaggcca 2400
109 agtggaaaga ggctgggggt cccatttgac tccagtccca ggcagccatg gggatctcgg 2460
111 gtcagttcca gccttctct ccaactcttc agccctgtgt tctgctgggg ccatgaaggc 2520
113 agaaggttta gcctctgaga agccctcttc tccccacc cttttccagg agaaggggt 2580
115 gcccctccaa gccctacttg tatgtgcgga gtcacactgc agtgccgaac agtattagct 2640
117 cccgttccca agtgtggact ccagaggggc tggaggcaag ctatgaactt gctcgctggc 2700
119 ccaccctaa gactggtacc catttccttt tcttaccctg atctccccag aagcctcttg 2760
121 tgggtggtggc tgtgccccct atgcctgtg gcatttctgc gtcttactgg caaccacaca 2820
123 actcaggga agaatgcct gggagtggg gtgcaggcgg gcagcactga gggaccctgc 2880
125 cccgcccctc ccccaggcc cttttccct gcagcttctc aagtgagact gacctgtctc 2940
127 acccagcagc cactgcccag ccgactcca ggcaagggcc agtgcgctg ctctgacca 3000
129 ctgcaatccc agcgcccaag gaaggccact tctcaactgg cagaacttct gaagtttaga 3060
131 attggaatta ctctctact agtgtctttt ggcttaaatt ttgtcttttg aagttgaatg 3120
133 cttaatcccg ggaagagga acaggagtgc cagactcctg gtctttccag tttagaaaag 3180
135 gctctgtgcc aaggagggac cacaggagct gggacctgcc tgcccctgtc ctttccccct 3240
137 ggttttgtgt tacaagagtt gttggagaca gtttcagatg attatttaat ttgtaaatat 3300
139 tgtacaaatt ttaatagctt aaattgtata tacagccaaa taaaaacttg cattaacaaa 3360
141 aaaaaaaaaa aaaa 3374
144 <210> SEQ ID NO: 2
145 <211> LENGTH: 3388
146 <212> TYPE: DNA
147 <213> ORGANISM: Mus musculus
149 <400> SEQUENCE: 2
150 gtcgtagcta tccctggaat gaggcgctta cacattttat ttctttcatg cctgacataa 60
152 agtctggccc ttgctcgctc ctgccccccg tccaaatggc tcggcccgcg gaacgcccc 120
154 tcttccaggc acattgagag cggaggtctt ggaggagttt aggggtggtga ttctacaacg 180
156 ggcactagca agtggcgggc ttcagccctt tccgctgct ctctggtcg cgaccacagc 240
158 tcacagctct cgctcgcttc ggttgctcgc gcacgggccc cagaagcgca ggcgagatcg 300
160 gagcgcgcaa agagaacttg gtacgggtcca ctccgcccgc ccccgcgccg ccggaagtga 360
162 ggtgtcttac ccccgaagtt ccggttcgca ggggggtggg agtgttggtta accggagcgg 420
164 ctgccgcagt cgcggtgatt gagctgctc gcggcgctgg gctcctggtc tctgggccag 480
166 ggcgatgttc cgcaccgcag tgatgatggc gcccagcctg gcgctaaccg gggcagtggt 540
168 ggctcatgcc tactacctca aacaccagtt ctaccctact gtagtgtatt tgaccaagtc 600

```

RAW SEQUENCE LISTING

DATE: 08/11/2006

PATENT APPLICATION: US/10/588,290

TIME: 11:07:12

Input Set : A:\L7350.0009 SEQUENCE LISTING.TXT

Output Set: N:\CRF4\08112006\J588290.raw

```

170 cagccccagc atggcagtc tgtacatcca ggcctttgtc cttgtcttcc tcttgggcaa 660
172 ggtgatgggc aaggtgttct tcgggcagct gagggcagca gagatggagc accttctgga 720
174 acggtcctgg tacgctgtta ctgagacttg tttggccttc accgtttttc gggatgactt 780
176 cagccctcgc tttgtggcgc tctttacgct gctcctcttc ctcaaagtgt tccattgggt 840
178 ggctgaagac cgtgtggact ttatggaacg cagccccaac atctcctggc tcttccactg 900
180 ccgcatcgtc tctctcatgt ttctcctggg tatcctggac ttcctcttcg tcagccacgc 960
182 ttatcacagc atcctgaccc gtggggcttc tgtgcagctg gtatttggct ttgagtacgc 1020
184 cattctgatg accatggtgc ttaccatctt catcaagtat gtgctgcact ccgtggacct 1080
186 ccagagcgag aacccttggg acaacaaggc tgtatacatg ctctacacgg agctgtttac 1140
188 aggtctcatc aaggtcctgc tgtacatggc cttcatgacc atcatgatca aggtgcacac 1200
190 attcccactc tttgccatta ggcccatgta cctggccatg aggcagttca agaaagctgt 1260
192 gacagatgcc atcatgtctc gccgagccat ccgcaacatg aacacactgt acccagatgc 1320
194 cacccccagc gagctccagg cagtggataa tgtctgtatc atctgcagag aagaaatggt 1380
196 gactgggtgc aagagattgc cttgcaacca catctttcac acgagctgcc tgcgctcctg 1440
198 gttccagaga cagcagacct gcccgacatg ccgcatggat gtcctgcggg catcgttgcc 1500
200 agcccagtc aaccacctc ctgagcctgc tgaccaagga ccccccccg cccctcatcc 1560
202 ccaaccgctg ctgccacagc cccctaattt ccccagggc ctctgcctc ctttctctcc 1620
204 aggcattgtc cactgtggc ccccaatggg tccctttcca cctgtccgc ctcccccaag 1680
206 ctcaggagag gctgcggccc ctccacccac cagtacagcc gtttctcggc ctagtggagc 1740
208 agccaccacc acagctgctg gcaccagtac ttctgcccc aacactgggt ctgtacctgg 1800
210 cccagaggct ggtcctgccc ccggtctccc tttccctcct ccttggatgg gtatgcctct 1860
212 gcctccacct tttgccttcc ccccaatgcc tgtgccccct gcgggctttg ctggcctaac 1920
214 cccagaggag ctgcgagcac tagagggcca tgagcggcag cacctggagg cccggctgca 1980
216 gagtctgcgc aacatacaca cactactgga tgctgccatg cttcaaatac accagtacct 2040
218 cactgtgctg gcttccctgg gggccccccag gccagctact tcagtgaacc cactgaaga 2100
220 gactgcctct acagtggat ctgctgcccc ttccaccagc gccccagct ctgaggtccc 2160
222 taccctgctc ccgggagctt ccccaccaat tctgaagca gaaaagcctc ctgctcctga 2220
224 gtcagtgggc attgtagagg agcttcccga ggacggagag cctgatgctg cagaactccg 2280
226 ccggcgctgc ctgcagaagc tggagtcccc tgttgcacac tgacactgcc cagacctggc 2340
228 cctgttctct tgagtggccc tcactggaac acgtctgccc atcaagtgcc agctccctct 2400
230 ctgcttgcac cagggagtaa tagccccagt tgagaaagac ttggcaggat ctctgaggat 2460
232 caaggagaag tgtctgggct tccagttgat ccatccccag tgccccctggc agccatggag 2520
234 atactggtca gctctaacct cctccactt ctgccatgtt caactggggc cttcaaagta 2580
236 gaagctgaat ctctggtaag ctttctcttc catgctttct gggagaaggt gaagccctc 2640
238 caagccctgc ttgtgagtat gggaccatgc tgcagtgcgc aacagtatta gcttctgttc 2700
240 ccaagtgtgg aaaccagag gggctgaaga cagaccagga ccttgcccca cctcctgcc 2760
242 aagactggta ccagtctctt tctctagcc cagtcttccc agaaccctt tgtgatggtg 2820
244 gctgtgcccc ccgaagccct gtggcatttc catgtcttac tggcaaccac acaactcagg 2880
246 gaaaggagtg cctgggggtg gggcacaggc gggcagcact gagggaccct gccctgcccc 2940
248 tccccagctc ttccccatc tcaccagca gccactgcct ggtgggcctg gctaagggtg 3000
250 tgtgctgctc cttaaaccac tgcctcccag aaccacaggc aggccacctc caacctgtgg 3060
252 gatgtcgtca ggattggaac tattctgtac ctactggctt tgggcttaaa ttttgtcttc 3120
254 tgaatttgaa tgcttgaccc caggaaggag gagcaggtgt ggggctaggt acctggactt 3180
256 cgcagtttag aacaagctct gggccggggc gggccaggcc aggcctaggg agccaaggcc 3240
258 tagctgctgc ttcttctttt tggttttgtg ttacaggagt ttctggagag tttcagatga 3300
260 ttatttaatt tgtaaatatt gtataaatth taatagctta aattgtatat acagctcaat 3360
262 aaaaacttgc attaaaaaaa aaaaaaaa 3388
265 <210> SEQ ID NO: 3
266 <211> LENGTH: 19

```

RAW SEQUENCE LISTING

DATE: 08/11/2006

PATENT APPLICATION: US/10/588,290

TIME: 11:07:12

Input Set : A:\L7350.0009 SEQUENCE LISTING.TXT

Output Set: N:\CRF4\08112006\J588290.raw

```

267 <212> TYPE: DNA
268 <213> ORGANISM: Homo sapiens
270 <400> SEQUENCE: 3
271 cgttcctggt acgccgtca 19
274 <210> SEQ ID NO: 4
275 <211> LENGTH: 19
276 <212> TYPE: DNA
277 <213> ORGANISM: Mus musculus
279 <400> SEQUENCE: 4
280 gaaatggtga ctggtgcta 19
283 <210> SEQ ID NO: 5
284 <211> LENGTH: 19
285 <212> TYPE: DNA
286 <213> ORGANISM: Artificial sequence
288 <220> FEATURE:
289 <223> OTHER INFORMATION: synthetic DNA
291 <400> SEQUENCE: 5
292 ggctacgtcc aggagcgca 19
294 <210> SEQ ID NO: 6
295 <211> LENGTH: 20
296 <212> TYPE: DNA
297 <213> ORGANISM: Artificial
299 <220> FEATURE:
300 <223> OTHER INFORMATION: synthetic DNA
302 <400> SEQUENCE: 6
303 gcgccgccgg aagtgaggtg 20
306 <210> SEQ ID NO: 7
307 <211> LENGTH: 20
308 <212> TYPE: DNA
309 <213> ORGANISM: Artificial
311 <220> FEATURE:
312 <223> OTHER INFORMATION: synthetic DNA
314 <400> SEQUENCE: 7
315 cacctcactt ccggcggcgc 20

```

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 08/11/2006
PATENT APPLICATION: US/10/588,290 TIME: 11:07:13

Input Set : A:\L7350.0009 SEQUENCE LISTING.TXT
Output Set: N:\CRF4\08112006\J588290.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:6,7

VERIFICATION SUMMARY

DATE: 08/11/2006

PATENT APPLICATION: US/10/588,290

TIME: 11:07:13

Input Set : A:\L7350.0009 SEQUENCE LISTING.TXT

Output Set: N:\CRF4\08112006\J588290.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application No

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:14 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD